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From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
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To: Info-Hams

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Today's Topics:

Is there such thing as an omnidirectional antenna in 3 dimensions?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 18 Aug 1993 21:47:44 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!spool.mu.edu!
olivea!apple.com!goofy.apple.com!michael.apple.com!ems@network.ucsd.edu
Subject: Is there such thing as an omnidirectional antenna in 3 dimensions?
To: info-hams@ucsd.edu

In article <CByy53.AwA@srigenprp.sr.hp.com> alanb@sr.hp.com (Alan Bloom) writes:
>Dale Roberts (roberts@ishtar.med.jhu.edu) wrote:

>
>: I'm looking for an antenna of some sort that I can use as an
>: omnidirectional field strength indicator. We have a system that
>: produces 3 orthogonal (at 90 degrees to one another) magnetic fields
>: at 3 frequencies.
>
>I assume what you want is an antenna that responds to magnetic fields
>only. (Radio antennas respond to electromagnetic fields.)
>
>How about 3 small loop antennas mounted perpendicular to each other?

Um, er there is the neat antenna used on satellites prone to tumbling
that has pretty good omni characteristics.. even so far as polarization
too! It is called something like a QuadraFilar Helical Mumble or

some such... Gack, where is my ARRL Antenna Handbook...

It looks kind of like someone took an egg beater and twisted it so that the 4 sides (hoops?) were spiraled by about 1/2 turn. Really geeky, but supposedly helps to avoid fading from a rotating tumbling satellite vs a fixed polarization ground antenna...

If you can't find a copy of the ARRL Antenna Handbook, I'll get more data from my copy at home.

--

E. Michael Smith ems@apple.COM

'Whatever you can do, or dream you can, begin it. Boldness has genius, power and magic in it.' - Goethe

I am not responsible nor is anyone else. Everything is disclaimed.

End of Info-Hams Digest V93 #991
